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All photos courtesy of Fresno County Department of Agriculture Staff
This report is also available at our internet site:
https://www.co.fresno.ca.us/departments/agricultural-commissioner



County of Fresno

DEPARTMENT OF AGRICULTURE MELISSA CREGAN

AGRICULTURAL COMMISSIONER/ SEALER OF WEIGHTS & MEASURES

Karen Ross, Secretary California Department of Food and Agriculture

The Honorable Board of Supervisors County of Fresno

Nathan Magsig, Chairman
Steve Brandau Buddy Mendes
Sal Quintero Brian Pacheco
Jean M. Rousseau,
County Administrative Officer

It is my pleasure to submit the 2018 Fresno County Agricultural Crop and Livestock Report. In each of our annual reports, the Department likes to highlight a segment of our history; and this edition will feature the California Department of Agriculture's Direct Marketing Program and the certified producers and their crops. This report is produced in accordance with Sections 2272 and 2279 of the California Food and Agriculture Code; and summarizes the acreage, production, and value of agricultural commodities produced in Fresno County. Fresno County's total gross production value for 2018 is \$7,887,583,790. This represents an increase of \$859,559,690 or 12.23% over the previous year's total of \$7,028,024,100.

Once again, almonds continue to be the leading agricultural commodity in Fresno County with a gross value of \$1,178,182,069, which represents 14.94% of the total gross value of all crops produced in 2018. The total gross value of grapes remained in the number two spot at \$1,106,858,236 followed by pistachios for the first time at \$862,144,401.

Fresno County's agricultural strength is based on the diversity of crops produced. Included in the 2018 report are over 300 different commodities, 76 of which have a gross value in excess of \$1,000,000. Although individual commodities may experience difficulties from year-to-year, Fresno County continues to supply the highest quality of food and fiber nation wide and abroad to more than 95 countries around the world.

Crop values vary from year to year based on production, market fluctuations and weather. It is important to note the figures provided in this report reflect gross values and do not take into account the costs of production, marketing, transportation, or other ancillary costs. These figures do not represent net income or loss to the producers of these commodities.

This report is our yearly opportunity to recognize the growers, shippers, ranchers and other businesses instrumental to and supportive of agriculture in Fresno County. We truly appreciate the many producers, processors, and agencies (both private and public) that supported our efforts in completing this report. In addition, a hearty thank-you goes out to my entire staff; especially Fred Rinder, Scotti Walker, Angel Gibson, Rosemarie Davis, Sam Sohal, and Shoua VangXiong. Without their hard work and valuable input, this report would not be possible.

Respectfully submitted,

Melissa Cregan

Agricultural Commissioner
Sealer of Weights and Measures



FARM FRESH

CROPS

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Ranl	<u> </u>	2018 Total Value	2017 Rank	2008 Rank
A Part	11 100		-N	7
1	Almonds	\$ 1,178,182,069	1	2
2	Grapes	\$ 1,106,858,236	2	1
3	Pistachios	\$ 862,144,401	4	13
4	Poultry*	\$ 596,477,120	3	3
5	Garlic	\$ 435,339,722	12	9
6	Milk	\$ 415,812,000	5	4
7	Cattle	\$ 392,235,000	7	6
8	Onions	\$ 370,383,721	13	11
9	Tomatoes	\$ 324,508,042	8	5
10	Mandarins	\$ 234,968,779	6	+

Includes commodity totals reported in the "Other" category such as organic, by-products, processed etc.

^{*} Includes Turkeys, Chickens, Ducks, Geese, Gamebirds & Eggs

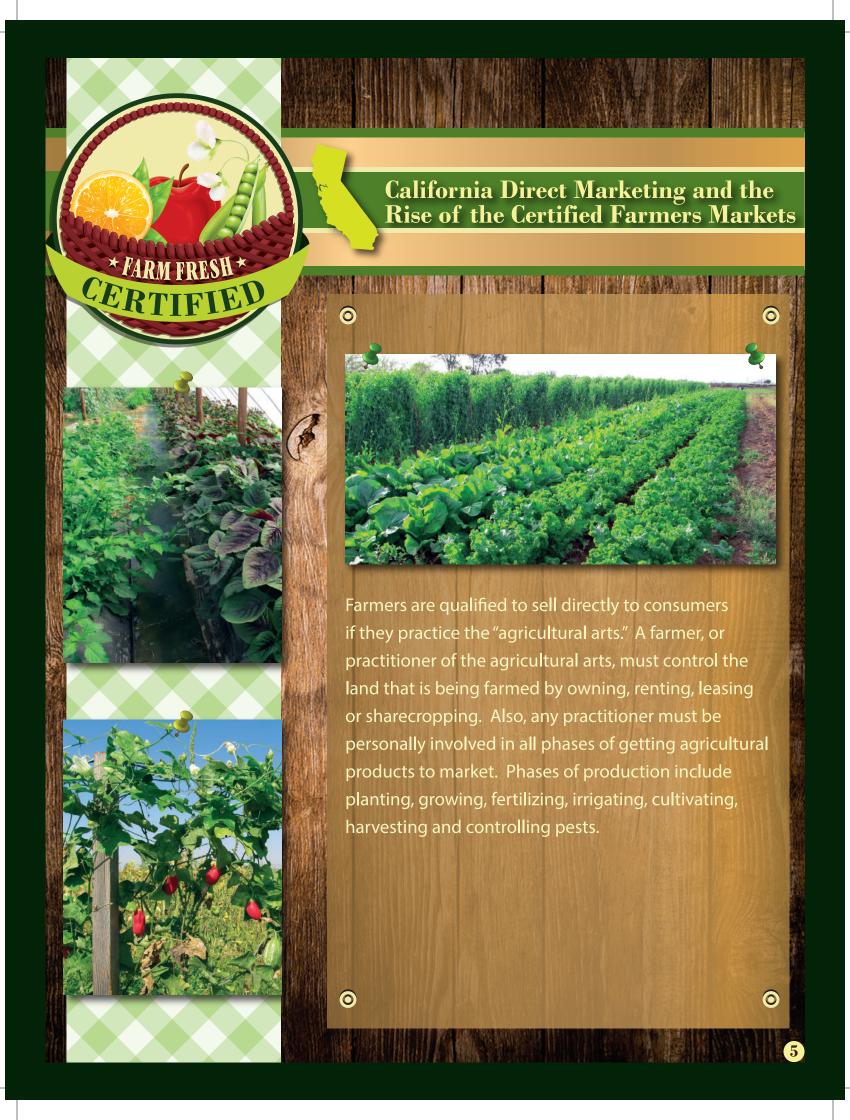
⁺ Not previously separated for ranking purposes



California Direct Marketing and the Rise of the Certified Farmers Markets

In 1977, California Governor Jerry Brown signed an executive order which allowed California farmers to sell their crops directly to the public. This was in response to a labor dispute in 1976 which caused the loss of many perishable crops. California Food and Agricultural Code (FAC), Title 3, Division 17, Chapter 10.5, beginning in Section 4700 legislatively addresses direct marketing. California Code of Regulations (CCR), Title 3, Chapter 1, Subchapter 4, Article 6.5, Section 1392 – 1392.12 implements the law.

The purpose of the direct marketing laws and regulations is to allow California farmers to sell directly to consumers exempt from certain standardization requirements such as standard containers, standard pack, container labeling and size. However, produce must meet all quality and maturity regulations. Growers who choose to participate in other markets such as swap meets and uncertified farmers markets are not exempt from standard containers, standard pack, container labeling and size, and must have proof of ownership while transporting their product to market.





What is a CFM?

Certified farmer's markets (CFMs) are sites where certified farmers can sell their agricultural products directly to the public. CFMs are authorized by the county agricultural commissioner (CAC) and must comply with governing legislation and regulations. Also, CFMS must adhere to established market rules. Each CFM develops written market rules that act as a plan for operations and activities. CFMs provide a known location and time that the public can purchase certified agricultural products from the farmer.





What is a CPC?

CERTIFIED'

A farmer must be authorized and certified by the county agricultural commissioner. After a production site inspection a Certified Producer Certificate is issued by the county agricultural commissioner in which the crops and products are grown and harvested. The certificate shall list all of the crops or products intended for sale. The certificate shall be posted at the booth. Also, growers are to post a banner stating, "We grow what we sell" and the county of production. Certified agricultural products sold at CFMs are fresh fruits, nuts, vegetables, shell eggs, honey, flowers and nursery stock grown or produced, and harvested, by a certified producer.







Certified Farmer's Markets

River, Park
Farmer's Market
220 E. Paseo de Centro, Fresno
Tuesday 3 - 5 pm
Saturday 9am - 1pm
Year Round



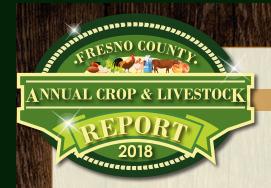
Fresno County has 6 certified farmers' markets (CFMs). The Direct marketing of agricultural products through CFMs benefits both growers and consumers. CFMs provide a marketing alternative without disrupting the other produce marketing systems. The high quality and fresh produce brought to these six CFMs by the producers creates a diverse selection of products while providing the consumer the opportunity to meet the farmer and learn how their food is produced. CFMs are a great opportunity for small farmers to market their products without the added expense of commercial preparation.





The Market
on Kern
Kern Street
(Between M & N Streets)
Fresno
Wednesday 10 am - 2 pm





2018 CROP HIGHLIGHTS

FIELD CROPS:

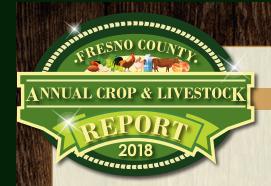
The total gross returns for <u>field crops</u> increased by 6.00 percent, from \$323,047,000 in 2017 to \$342,442,000 in 2018. The total value for all cotton also grew once again this year to \$183,576,000, which was an increase of \$13,471,000 dollars from the 2017 value. Although 2018 <u>Upland cotton</u> acreage and the price for lint both deceased (35.70%) and (7.37%) respectfully, the production per acre showed a 64.36 percent increase. The <u>Pima</u> variety of <u>cotton's</u> production per acre also increased, but by a lesser amount (26.33 percent), this did in fact help the total value for pima cotton to increase by \$13,578,000 from the 2017 total value. <u>Alfalfa hay</u> acreage was down again slightly this year, but an increase of 1.18 ton per acre, along with an increase in the price per ton, did cause the total value to increase by 38.42 percent to \$52,875,000 dollars. This year the <u>wheat hay</u> acreage fell by almost 3,000 acres, but this could have helped the price per ton to increase to \$169 for 2018. <u>Corn silage</u> held steady with just a small decrease in harvested acreage and an increase of \$3.00 in the price per ton. Harvested acreage for <u>wheat grain</u> fell again, this year by 13.67 percent to 22,100 acres

SEED CROPS:

The total gross returns for all <u>seed crops</u> increased by 34.05 percent or \$9,454,000 to \$37,219,000 for 2018. <u>Certified alfalfa seed</u> acreage decreased again this year, but at least not by 1,300 acres, as it did in 2017, this year it just fell by 530 acres to 4,720 acres harvested this year.

VEGETABLE CROPS:

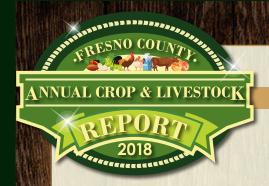
This year the total value increased from \$990,326,000 in 2017 to \$1,520,149,000 or by 53.99 percent, after having decreased the previous two years in a row. The total acreage in vegetable crops increased by 1,783 acres to 186,469 acres. Tomatoes fell from the number eight to the number nine spot on Fresno County's top 10 Leading Crop list, due mainly to the 34.08 percent decrease in total value of standard tomatoes, due to the price dropping because the market was flooded with foreign imports. The acreage harvested for processing tomatoes increased by 5.11 percent to 77,140 acres. Garlic made it back onto the Fresno County's Top Ten list; a combination of an increase in yield and price per ton had the gross value for fresh and processed garlic climbing to \$433,608,000 from 2017's value of \$144,450,000. Spring Head lettuce values leveled out this year since there was not any unfavorable weather problems to cause problems in the supply chain. Although the total value fell from \$43,868,000 to \$16,461,000, the production per acre increased by 1.58 tons per acre to 16.81. The total melon acreage in the county increased this year by 621 acres, or 2.80 percent, due to the 2,991 acre increase in mixed melons, the total value also increased greatly because the price per ton received increased by 39.75 percent to \$661.00 per ton. The squash total value fell to \$4,824,000, even though the acreage increased slightly but the price paid per ton fell to \$659.00 per ton. <u>Oriental vegetable</u> acreage decreased 10.70 percent to 1,118 acres; some growers expressed that the decrease in production was due to the lack of well water and extreme heat during the summer.



Fruit and nut crops increased in total gross value by \$324,660,000, or 8.05 percent to \$4,357,961,000, this is the second time fruit and nut has surpassed the **four-billion-dollar** mark. <u>Almonds</u> has surpassed the billion-dollar mark for five years now, holding on to the number one spot on the Fresno County's Top Ten ranking, while grapes held on to the number two spot on the list. Once again, this year there was an increase in the value per ton for all raisin variety grapes except those packed for the fresh market. The production per acre increased this year by 23.39 percent to 10.18 tons per acre. All the categories (crush, dried, fresh, and juice) within raisin variety grapes had an increase in the price per ton of at least \$28.00 dollars except for those packed for fresh market, which fell by \$445.00 per ton. Table variety grapes showed an increase in acres harvested and total tons per acre for the second year in a row. But just like the raisin variety table grapes, the table variety grapes packed for the fresh market also showed a decrease in the price paid per ton, falling from \$1,719.00 in 2017 to \$1,322.00 in 2018. Oranges fell to from the Top Ten list for the first time since 2014, even though the total combined value increased by \$8,807,000 to \$212,126,000. Both Navel and Valencia variety oranges showed an increase in the value per ton for those sold as fresh, although the processed price for navels increased the price for the Valencia variety fell to \$88.00 per ton. The total value of the Mandarin/Tangerine crop fell by \$197,678,00 or 46.22 percent, even though the harvested acreage increased by a little over 1,000 acres. Total value of peaches increased to \$221,554,000, or by 9.16 percent from the 2017 value. The price per ton paid for Cling's increased by 11.89 percent, while the price for fresh Freestone types decreased by over \$300.00 per ton to \$1,354.00. <u>Pistachios</u> increased in value to \$857,070,000, the highest it has ever been and moved up one spot to the number three spot on the Top Ten list. Cherries had an increase in harvested acreage again this year but, the production per acre fell by 36.84 percent to 2.16 tons per acre, due to the cold weather at the beginning of spring, that resulted in a lighter fruit set. Walnut acreage increased by almost 600 acres or 6.96 percent, but that was not enough to increase the total gross value since the price paid per ton fell by a whopping 41.03 percent due to ongoing trade wars.

NURSERY:

The value of <u>nursery</u> products increased by \$12,814,000, to a total of \$51,061,000 in 2018 due in large part to shifting business patterns. <u>Herbaceous Ornamentals</u>, which includes (aquatic plants, potted plants, bedding plants, decorative plants, flats, annuals perennials and grasses), increased in value by 36.84 percent to \$5,839,000. <u>Ornamental trees</u> and <u>shrubs</u> increased across all categories once again this year; the total acres increased by a whopping 50 acres and the total value increased to \$12,011,000. The <u>other category</u> which includes bareroot trees, Christmas trees, citrus budwood and trees, grape rootings and cuttings, along with vegetable transplants and sod increased in value by over 10 million dollars, because the quantity sold increased by 54.82 percent.



LIVESTOCK AND POULTRY:

The total gross returns for <u>livestock</u> and <u>poultry</u> fell in 2018 to \$989,912,000, that was a decrease of 1.79 percent from the 2017 value. The total value of all <u>cattle</u> and <u>calves</u> sold decreased by 7.45 percent to \$392,235,000, due to some price decreases, but they held on to the number seven spot on the Top Ten Crop List. <u>Slaughter stock</u> which includes both beef and dairy slaughter cattle decreased slightly by 1.93 percent, although the hundredweight (cwt) sold increased to 1,460,000 cwt, or by 1.18 percent. <u>Dairy Cattle</u> showed a larger decrease in the total value, it fell to \$186,836,000, or by 13.72 percent, due to all the prices in this section decreasing. <u>Hogs</u> and <u>pigs</u> increased in value by 55.15 percent, due to an increase in number of head sold and an increase of 45.86 percent in the price per hundredweight. The value of <u>lambs</u> decreased, while the value for <u>sheep</u> increased, due to the price fluctuations in the prices paid per hundredweight for both categories. The <u>poultry</u> and <u>miscellaneous other</u> category which includes chickens, turkeys, ducks, geese, gamebirds, fish, goats, and beneficial insects increased by \$16,586,000 from last year to \$568,838,000.

LIVESTOCK AND POULTRY PRODUCTS:

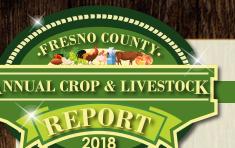
The total value for <u>livestock</u> and <u>poultry</u> products decreased to by 8.51 percent to \$462,802,000, from 2017 value of \$505,879,000 because of the drop-in milk prices and a decrease in the other category. <u>Milk</u> moved from the number five to the number six spot on Fresno County's top 10 Leading Crop list, due mainly to the 5.73 percent decrease in the value of market milk, although the price for manufacturing milk fell by \$4.28 per cwt. The value for <u>manure</u> also increased from \$9,277,000, to \$17,700,000, due to the \$5.11 increase in the price per ton.

APIARY PRODUCTS AND POLLINATION SERVICES:

Gross returns for <u>apiary</u> and <u>pollination</u> services was increased by \$26,557,000 in 2018 to \$122,141,000. <u>Honey</u> increased in total value by 7,198,0000 due to an increase in the price received and the number of pounds sold. The total value of all <u>pollination services</u> increased by 23.30 percent, mostly due to the increase in the <u>trees, fruit</u> and <u>nut</u> and <u>melon</u> pollination values.

INDUSTRIAL CROPS:

<u>Industrial crops</u> decreased in value 34.05 percent to \$3,806,000 from last year's value of \$5,909,100. The value of <u>timber</u> was fell even though the total board feet that was harvested increased by 92,413,000 board feet. The <u>industrial other</u> category which includes poles, posts and split products, bark, biomass, compost, cones, ground cover, mulch, pomace, and wood fines fell to \$1,814,000 dollars.



FIELD CROPS

			PRODU	CTION		VALUE				
CROP	YEAR	HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PE	R NIT	тот	AL	
Corn										
Silage	2018	24,410	19.66	480,000	ton	\$	49.00 a	\$	23,520,000	
	2017	24,857	20.41	507,000	ton	\$	46.00 a	\$	22,815,000	
Cotton										
Upland Lint	2018	3,350	1,688.00 b	11,300 ^c	bale	\$	0.88 d	\$	5,012,000	
	2017	5,210	1,027.00 b	10,700 ^c	bale	\$	0.95 ^d	\$	5,123,000	
Seed										
	2018			4,070	ton	\$	276.00	\$	1,123,000	
	2017			4,130	ton	\$	271.00	\$	1,119,000	
Pima Lint										
	2018	65,740	1,857.00 b	244,000 °	bale	\$	1.26 ^d	\$	154,950,000	
	2017	69,845	1,470.00 b	205,000 °	bale	\$	1.40 ^d	\$	144,648,000	
Seed	2018			94,900	ton	\$	237.00	\$	22,491,000	
	2017			79,400	ton	\$	242.00	\$	19,215,000	
Cotton Total ^e	2018	69,090						\$	183,576,000	
	2017	75,055						\$	170,105,000	
Hay										
Alfalfa	2018	32,122	7.32	235,000	ton	\$	225.00	\$	52,875,000	
	2017	32,593	6.14	200,000	ton	\$	191.00	\$	38,200,000	
Wheat	2018	17,680	3.49	61,700	ton	\$	169.00	\$	10,427,000	
	2017	20,400	4.71	96,100	ton	\$	148.00	\$	14,223,000	
Other ^f	2018	9,960	0.8	7,970	ton	\$	242.00	\$	1,929,000	
	2017	1,182	2.08	2,460	ton	\$	124.00	\$	305,000	
Wheat										
Grain	2018	22,100	2.87	63,400	ton	\$	222.00	\$	14,075,000	
	2017	25,600	1.73	44,300	ton	\$	194.00	\$	8,594,000	
Silage	2018	15,860	10.28	163,000	ton	\$	53.00	\$	8,639,000	
	2017	18,615	21.06	392,000	ton	\$	38.00	\$	14,896,000	
									The state of the s	



FIELD CROPS

			PRODUC	TION			VAL	.UE
CROP	YEAR	HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	тот	TAL
Other ⁹	2018 2017	887,080 59,240					\$ \$	47,401,000 39,629,000
Total		1,078,300 1,097,542						342,442,000 323,047,000

- a Field price
- b Pounds of lint per acre
- c 500 pounds lint per bale
- d Price per pound, 504 pounds gross weight per bale
- e Does not include cotton seed for planting
- f Includes hay from: barley, oats, rye grass, sudan grass and winter forage
- g Includes alfalfa (silage and grain), beans (dried), corn (grain), cotton by-products, field stubble (includes acres not included in total field crop acreage), irrigated pasture, oat (grain and silage), rangeland, rice (grain and bran), sorghum (silage and grain), sudangrass silage, straw, triticale (forage and grain), wheatgrass silage, winter forage silage, ORGANIC: barley, corn silage, rice grain, wheat grain





SEED CROPS

			PRODU	CTION				VAL	UE
CROP	YEAR	ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT		тот	AL
Alfalfa	2018	4,720	657	3,101,000	lb	\$	3.25	\$	10,078,000
Certified	2017	5,250	685	3,596,000	lb	\$	3.28	\$	11,795,000
Vegetable ^a	2018	1,560						\$	24,285,000
	2017	1,570						\$	8,315,000
Other ^b	2018	2,010						\$	2,856,000
	2017	2,700						\$	7,655,000
Total	2018	8,290						\$	37,219,000
	2017	9,520						\$	27,765,000

- a Lettuce (head & leaf), mizuna, and onion
- b Alfalfa non-certified and wheat





VEGETABLE CROPS

			PRODUC	TION		VALUE				
		HARVESTED	PER			PER				
CROP	YEAR	ACREAGE	ACRE	TOTAL	UNIT	UNIT	тота			
Asparagus	2018	710	2.30	1,630	ton	\$ 2,992.00	\$	4,877,000		
	2017	970	3.44	3,340	ton	\$ 3,387.00	\$	11,313,000		
Broccoli a	2018	3,394	5.13	17,400	ton	\$ 885.00	\$	15,399,000		
	2017	3,840	6.65	25,500	ton	\$ 1,133.00	\$	28,892,000		
Corn, Sweet	2018	6,090	10.51	64,000	ton	\$ 438.00	\$	28,032,000		
	2017	5,872	8.07	47,400	ton	\$ 487.00	\$	23,084,000		
Eggplant ^b	2018	760	12.28	9,330	ton	\$ 785.00	\$	7,324,000		
-99Pi	2017	940	17.98	16,900	ton	\$ 839.00	\$	14,179,000		
Garlic										
Fresh/Processed	2018	25,280	8.04	203,000	ton	\$ 2,136.00	\$	433,608,000		
	2017	25,060	5.39	135,000	ton	\$ 1,070.00	\$	144,450,000		
Head Lettuce										
Naked				9,400	ton					
Wrapped				35,900	ton					
Bulk				13,700	ton					
Spring	2018	3,510	16.81	59,000	ton	\$ 279.00	\$	16,461,000		
Season Total	2017	3,420	15.23	52,100	ton	\$ 842.00	\$	43,868,000		
Naked				7,200	ton					
Wrapped				35,300	ton					
Bulk				23,600	ton					
Fall	2018	3,950	16.73	66,100	ton	\$ 413.00	\$	27,299,000		
Season Total	2017	4,130	18.64	77,000	ton	\$ 390.00	\$	30,030,000		
Head Lettuce	2018	7,460	125,100				\$	43,760,000		
Totals	2017	7,550	129,100				\$	73,898,000		
Lettuce Leaf ^c	2018	4,040	15.42	62,300	ton	\$ 500.00	\$	31,150,000		
	2017	3,940	9.16	36,100	ton	\$ 1,050.00	\$	37,905,000		



VEGETABLE CROPS

			PRODU		VALUE			
CROP	YEAR	HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	то	TAL
Melons	The state						HEAT	
Conventional 8	& Organi	c						
Cantaloupe ^a	2018	13,500	17.41	235,000	ton	\$ 331	.00 \$	77,785,000
	2017	13,820	16.06	222,000	ton	\$ 369	.00 \$	81,918,000
Honeydew ^a	2018	4,470	18.12	81,000	ton	\$ 448	.00 \$	36,288,000
	2017	4,910	17.23	84,600	ton	\$ 416	.00 \$	35,194,000
Mixed Melon	s 2018	3,660	11.53	42,200	ton	\$ 661	.00 \$	27,894,000
	2017	669	15.55	10,400	ton	\$ 473	.00 \$	4,919,000
Watermelon	2018	1,180	26.44	31,200	ton	\$ 434	.00 \$	13,541,000
	2017	2,780	20.07	55,800	ton	\$ 475	.00 \$	26,505,000
Melon Total	2018	22,800					\$	155,508,000
	2017	22,179					\$	148,536,000
Onions								
Fresh/Processed	2018	18,980	23.39	444,000	ton	\$ 830	.00 \$	368,520,000
	2017	20,540	22.30	458,000	ton	\$ 279		
Oriental	2018	1,118		10,300	ton		\$	
Vegetables d	2017	1,252		12,620	ton		\$	17,302,000
Pepper, Bell ^a	2018	1,680	23.33	39,200	ton	\$ 455	.00 \$	17,836,000
	2017	650	18.15	11,800	ton	\$ 739	.00 \$	8,720,000
Squash ^e	2018	727	10.07	7,320	ton	\$ 659	.00 \$	4,824,000
	2017	700	12.81	8,970	ton	\$ 985		
	2017		12.01	0,2,70		4 203		0,000,000
Tomatoes								
Standard	2018	6,620	24.17	160,000	ton	\$ 102		
& Cherry	2017	7,253	13.03	94,500	ton	\$ 262	She of the fi	
Processed	2018	77,140	56.49	4,358,000	ton		.00 \$	
	2017	73,390	51.70	3,794,000	ton	\$ 67.00	\$	254,198,000
Tomatoes Total	2018	83,760					\$	312,664,000
	2017	80,643					\$	278,957,000



VEGETABLE CROPS

			PRODUC	TION			VALUE	
CROP	YEAR	HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL	
Other ⁹	2018 2017	9,660 10,550				-	\$ \$	79,539,000 66,472,000
Total	2018 2017	186,469 184,686						20,149,000 90,326,000

- a Includes fresh and processed
- b Includes Chinese, Filipino, Globe, Hawaiian, Indian, Italian, Japanese, mixed, and Thai varieties
- c Includes Red, Green, Butter, and Romaine varieties
- d Includes a choy, amaranth, bamboo, bitter melon (fruit, leaf and processed), bok choy, chayote (fruit and leaf), daikon, doan qua, gai choy, gailon, galangal, ginger, kabocha (fruit and leaf), lambsquarter, lemon balm, lemon grass, lo bok, long bean, malabar, mizuna, methi, moqua, mora, moringa (fruit and leaf), nagaimo, napa cabbage, ong choy, opo (fresh, processed and leaf), sugar snap peas (fruit and leaf), snow pea (fruit & leaf), saluyote, sinqua, sugar cane, sour leaf, soy bean, taro (root and leaf), tatsoi, tong ho, yam (root and leaves), and yu choy
- e Includes summer and winter varieties
- f Includes arugula, succulent beans, succulent bean leaf, beets, broccoli leaf, cabbage (fresh and processed), carrots (fresh, processed), casava (root and leaf), cauliflower, celery, chamomile, collards, corn (Indian and processed), cucumbers (fresh and processed), (Armenian, Indian, Japanese, Korean, market and pickling), dandelion green, gourd, jicama (yam beans), kale (fresh and processed), kohlrabi, lavender, leeks, mushrooms, mustard, okra, onions (green), parsnip, peas (English), peanuts, pennywort, pepper chili (fruit and leaf), potatoes, pumpkins (fresh & processed), purslane, radicchio, radish, rapini, rhubarb, rutabaga, shallot, spinach (fresh and processed), stevia, sunchokes, Swiss chard, tomatillo, turnips, watercress; Herbs: basil, chive, cilantro, dill, fennel, marjoram, mint, oregano, parsley (fresh & dried), tarragon, thyme, sage, savory, misc; ORGANIC: corn (sweet), eggplant, garlic, leaf lettuce, onion (fresh and processed), pepper bell (fresh), squash (fresh), and tomato (fresh and processed)







ANNUAL CROP & LIVESTOC



MARKET CROPS



Focus Interesting crops appearing more in the Market place





Starfruit is a sweet and tart fruit. With the shape of a five-point star. The skin is edible and the orange flesh has a mild sour flavor.



Sour Leaf also known as "Roselle" is a species of Hibiscus plant whose flowers are commonly steeped to make tea.

Chayote Squash can be eaten raw or cooked. The fruit as well as the leaves can be boiled, stir-fried or used I salads. Also known as "vegetable pear", "chcoco" or "christophene". Bitter Melon



Bitter melon is a vegetable whose name can be a bit confusing. It is not what we usually think of when we think of a melon but is a squash.

Like the name however, it is bitter. The Indian variety is warty with sharp ridges, the Chinese variety has smooth ridges and is less bitter. Both the leaf and the fruit are used in cooking. The fruit is eaten when green. Mature fruits turn bright orange and are then harvested for seed.

Tindora is a tropical vine also known as "ivy gourd". It is a favored ingredient in Indian cooking used in curries, stir-fries, and a main ingredient in Indian pickles and chutneys. It is green when young and can turn a scarlet red when it matures. It is also known as "scarlet gourd" or "kowai fruit".





			PRODUC	TION			VALUE
CROP	YEAR	ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Almonds ^a	2018	250,042	0.96	240,000	ton	\$ 4,626.00	\$ 1,110,240,000
	2017	228,109	1.13	258,000	ton	\$ 4,526.00	\$ 1,167,708,000
Almond Hulls	2018 2017			543,000 429,000	ton ton	\$ 109.00 \$ 68.00	\$ 59,187,000 \$ 29,172,000
Almond Total	2018 2017						\$1,169,427,000 \$1,196,880,000
Apricots ^a	2018	1,256	6.00	7,540	ton	\$ 2,220.00	\$ 16,739,000
	2017	1,255	7.19	9,024	ton	\$ 1,550.00	\$ 13,987,000
Blueberries ^a	2018	1,316	3.55	4,670	ton	\$ 6,805.00	\$ 31,779,000
	2017	1,190	3.45	4,100	ton	\$ 6,017.00	\$ 24,670,000
Cherries	2018	4,122	2.16	8,900	ton	\$ 4,181.00	\$ 37,211,000
	2017	3,951	3.42	13,500	ton	\$ 3,389.00	\$ 45,752,000





			PRODUC	TION			VALUE	
CROP	YEAR	HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL	
Citrus								
Lemons ^a								
Fresh	2018	2,819	15.15	42,700	ton	\$ 806.00	\$ 34,416,00	0
	2017	2,771	19.52	54,100	ton	\$ 580.00	\$ 31,378,00	0
Oranges								
Navel ^a	2018	24,705	14.58					
	2017	26,423	13.08					
Fresh	2018			281,000	ton	\$ 658.00	\$ 184,898,00	0
	2017			297,000	ton	\$ 626.00	\$ 185,922,00	0
Processed	2018			78,400	ton	\$ 155.00	\$ 12,152,00	0
	2017			48,600	ton	\$ 40.00	\$ 1,944,00	0
Valencia	2018	2,453	8.97					
	2017	2,388	11.93					
Fresh	2018			14,600	ton	\$ 988.00	\$ 14,425,00	
	2017			20,500	ton	\$ 682.00	\$ 13,981,00	
Processed	2018			7,400	ton	\$ 88.00	\$ 651,00	
	2017			8,000	ton	\$ 184.00	\$ 1,472,00	U
Orange Total	2018 2017	27,158 28,811					\$ 212,126,00 \$ 203,319,00	
Mandarin/Tangerin	e 2018	24,230	6.15	149,000	ton	\$ 1,544.00	\$ 230,056,00	0
Tangerine ^a	2017	23,185	11.50	267,000	ton	\$ 1,602.00	\$ 427,734,00	0
Citrus, other a, b								
Fresh	2018	2,119	13.12	27,800	ton	\$ 658.00	\$ 18,292,00	0
	2017	1,771	12.95	22,900	ton	\$ 556.00	\$ 12,932,00	0
Citrus Total	2018	56,326					\$ 494,890,00	0
	2017	56,538					\$ 675,363,00	
8			-					
			1		100000000000000000000000000000000000000	STATE OF THE OWNER, WHEN	The second secon	



			PRODU	CTION		VALUE			
CROP	YEAR	HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	тот	AL	
Grapes									
Raisin	2018	80,024	10.18						
Varieties ^a	2017	83,278	8.25						
Crushed	2018			114,000	ton	\$ 329.00	\$	37,506,000	
	2017			67,600	ton	\$ 299.00	\$	20,212,000	
Dried	2018			146,000 ^c	ton	\$ 2,150.00	\$	313,900,000	
	2017			129,000 ^c	ton	\$ 1,800.00	\$	232,200,000	
Fresh	2018			12,500	ton	\$ 1,053.00	\$	13,163,000	
	2017			11,200	ton	\$ 1,498.00	\$	16,778,000	
Juice	2018			1,620	ton	\$ 861.00	\$	1,395,000	
	2017			1,350	ton	\$ 833.00	\$	1,125,000	
Table	2018	28,500	13.56						
Varieties	2017	20,970	13.23						
Crushed	2018			11,500	ton	\$ 297.00	\$	3,416,000	
	2017			18,600	ton	\$ 259.00	\$	4,817,000	
Fresh	2018			310,000	ton	\$ 1,322.00	\$	409,820,000	
	2017			209,000	ton	\$ 1,719.00	\$	359,271,000	
Dried	2018			13,800 ^c	ton	\$ 1,827.00	\$	25,213,000	
	2017			10,600 ^c	ton	\$ 1,322.00	\$	14,013,000	
Wine	2018	59,514	12.93						
Varieties ^a	2017	59,654	13.33						
Crushed	2018			711,000	ton	\$ 317.00	\$	225,387,000	
	2017			736,000	ton	\$ 308.00	\$	226,688,000	
Juice	2018			58,400	ton	\$ 1,054.00	\$	61,554,000	
	2017			59,200	ton	\$ 1,019.00	\$	60,325,000	
Grape Total	2018	168,038					\$1	,091,354,000	
	2017	163,902						935,429,000	



			PRODUC	TION		VALUE			
CROP	YEAR	HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL		
Nectarines ^a	2018	9,532	11.75	112,000	ton	\$ 1,291.00		44,592,000	
	2017	9,582	7.95	76,200	ton	\$ 1,642.00	\$ 1	25,044,000	
Peaches									
Cling (processed) ^a	2018	1,552	14.83	23,000	ton	\$ 508.00	\$	11,684,000	
	2017	1,609	17.13	27,600	ton	\$ 454.00	\$	12,530,000	
Freestone (fresh) a	2018	14,594	10.62	155,000	ton	\$ 1,354.00	\$ 2	09,870,000	
	2017	13,217	8.70	115,000	ton	\$ 1,656.00	\$ 1	90,440,000	
Peaches Total	2018	16,146					\$ 22	1,554,000	
	2017	14,826					\$ 20	2,970,000	
Pears, all ^a	2018	784	13.27	10,400	ton	\$ 1,647.00	\$	17,129,000	
i cars, an	2017	878	23.23	20,400	ton	\$ 1,326.00		27,050,000	
	2017	0,0	23.23	20,100	1011	7 1,520.00	-	27,030,000	
Persimmons	2018	1,011	6.23	6,300	ton	\$ 1,136.00	\$	7,157,000	
	2017	889	7.73	6,870	ton	\$ 835.00	\$	5,737,000	
Pistachios ^a	2018	109,633	1.95	214,000	ton	\$ 4,005.00	\$ 8	57,070,000	
	2017	101,910	1.19	121,000	ton	\$ 4,273.00		17,033,000	
Plums ^a	2018	10,890	7.58	82,600	ton	\$ 1,244.00		02,754,000	
	2017	9,548	7.72	73,700	ton	\$ 1,368.00	\$ 1	00,822,000	
Plums, dried ^a	2018	1,212	1.74	2,110	ton	\$ 1,757.00	\$	3,707,000	
	2017	977	2.19	2,140	ton	\$ 2,200.00	\$	4,708,000	
Dlanata 2 d	2010	1 410	4.15	F 050		ć 1 215 00		7 100 000	
Pluots a, d	2018	1,410	4.15	5,850	ton	\$ 1,215.00	\$	7,108,000	
	2017	1,262	8.72	11,000	ton	\$ 1,836.00	3	20,196,000	
					Car				
	1		TAR	2020					



			PRODUC		VALU	E			
CROP	YEAR	HARVESTED PER PER ACREAGE ACRE TOTAL UNIT UNIT					TOTAL		
Pomegranates ^a	2018 2017	3,561 3,568	10.45 10.48	37,200 37,400	ton ton	\$ 963.00 \$ 445.00	\$ \$	35,824,000 16,606,000	
Walnuts ^a	2018 2017	9,008 8,422	1.71 1.73	15,400 14,600		\$ 1,299.00 \$ 2,203.00	\$	20,005,000 32,164,000	
Other ^e	2018 2017	18,030 10,887					\$	99,661,000 71,377,000	
Total	2018 2017	662,317 619,694						357,961,000 333,301,000	

- a Additional acreage that is included in other fruit and nut crops: 99 apricots (dried), 21 acres raisin grapes (processsed), 523 acres wine grapes (fresh & dried), 533 acres peaches freestone (processed), 57 peaches cling (fresh); ORGANIC: 3,398 acres almonds, 31.4 apples, 10.6 acres apricots, 48 acres blueberries, 32.5 acres figs dried and substandard, 2,341 acres raisin grapes (fresh, crushed and dried), 1 acres wine grapes (crushed), .1 acre lemons, 10 acres mandarins (fresh), 176 acres nectarines, 18.8 acres navel oranges (fresh), 17 acres other citrus, 359 acres peaches freestone (fresh & processed), 35 acres pears, 4.25 acres persimmons, 3.14 acres pistachios, 81.25 acres plums (fresh & dried), 26.75 acres pluots, 169 acres pomegranates, 65 acres walnuts
- b Includes citron, lime, grapefruit, pomelo and tangelo

- c Tonage is reported as dried tons
- d Includes pluot, plumcot or other interspecific varieties acres; conventional and organic
- e Includes almonds (shells, inedibles), apples (processed), apricots (juice, culls and dried), blackberries, boysenberries, cherries (processed), dates, figs (fresh, dried and substandard), grape raisins (processed and by-products), grape (leaves), grape wine (dried and fresh), guava, jojoba bean, jujubes, kumquats, lemons (processed), loquat, mulberry, olives (oil and canned), other citrus (processed), peach (freestone-processed and cling-fresh), pecans, quince, rasberries and strawberries; ORGANIC: almonds (meats and hulls), apples, apricots, blueberries, figs (dried, substandard), grape, raisin (fresh, dried and crushed), grape wine (crushed), lemons, mandarins, nectarines, orange navel (fresh), other citrus, peaches freestone (fresh, processed), pears, persimmons, pistachios, plums (fresh and dried), pluots, pomegranates (fresh), walnuts



NURSERY PRODUCTS

CROP	YEAR	ACRES	QUANTITY	UNIT		VALUE
Herbaceous Ornamentals ^a	2018 2017	2 16	691,000 4,172,000	b b	\$ \$	5,839,000 4,267,000
Ornamental Trees and Shrubs	2018 2017	81	1,397,000 1,212,000	plants plants	\$ \$	12,011,000 10,846,000
Other ^c	2018 2017	349 334	398, 849,000 257,625,000	units unit	\$	33,211,000 23,134,000
Total	2018 2017	432 381			\$	51,061,000 38,247,000

- a Include aquatic plants, potted pltants, bedding plants, decorative plants, flats, annuals, perennials, and grasses
- b Includes flats, dozens, cans, seedlings and single plants and trees
- c Includes bareroot fruit trees, Christmas trees, citrus (budwood and trees), grape (rootings and cuttings), trees-restoration stock (seedlings), turf (in square feet), and vegetable transplantssh and processed)







LIVESTOCK AND POULTRY

			PRODUCTION		VALUE		
ITEM	YEAR	NO. OF HEAD	TOTAL LIVEWEIGHT	UNIT	PER UNIT	TOTAL	
Cattle and Calves					-4.		
Beef							
Breeding Stoc	k						
Common	2018	1,240		head	\$ 1,680.00	\$ 2,083,000	
	2017	1,220		head	\$ 2,226.00	\$ 2,716,000	
Registered	2018	310		head	\$ 6,418.00	\$ 1,990,000	
	2017	310		head	\$ 3,822.00	\$ 1,185,000	
Feeders	2018	27,500	141,000	cwt	\$ 125.00	\$ 17,625,000	
	2017	27,000	141,000	cwt	\$ 118.00	\$ 16,638,000	
Calves	2018	27,500	82,600	cwt	\$ 146.76	\$ 12,122,000	
	2017	27,000	81,000	cwt	\$ 145.20	\$ 11,761,000	
Slaughter Sto	ck						
	2018	309,000	1,460,000 a	cwt	\$ 117.52	\$ 171,579,000	
	2017	317,000	1,443,000 a	cwt	\$ 121.25	\$ 174,964,000	
Dairy							
Breeding Stoc	:k						
	2018	99,100		head	\$ 1,248.00	\$ 123,677,000	
	2017	83,800		head	\$ 1,609.00	\$ 134,834,000	
Feeders	2018	60,800	328,000	cwt	\$ 80.52	\$ 26,411,000	
	2017	53,100	342,000	cwt	\$ 80.58	\$ 25,222,000	
Calves	2018	65,900	198,000	cwt	\$ 48.38	\$ 9,579,000	
	2017	100,000	301,000	cwt	\$ 103.61	\$ 31,187,000	
Cull Stock	2018	35,200	457,000	cwt	\$ 59.45	\$ 27,169,000	
	2017	30,700	400,000	cwt	\$ 63.28	\$ 25,312,000	
Cattle and Calves	2018					\$ 392,235,000	
Total	2017					\$ 423,819,000	



LIVESTOCK AND POULTRY

		P	ALUE				
ITEM	YEAR	NO. OF HEAD	TOTAL LIVEWEIGHT	PER UNIT	UNIT	TOTAL	
Hogs and Pigs							
Market Pigs &	2018	39,00	96,8000	cwt	\$ 117.24	\$ 11,349,000	
Slaughter Stock	2017	36,700	91,000	cwt	\$ 80.38	\$ 7,315,000	
Sheep and Lambs							
Slaughter Stock							
Lambs	2018	71,000	90,900	cwt	\$ 172.00	\$ 15,635,000	
	2017	72,500	92,800	cwt	\$ 252.00	\$ 23,386,000	
Sheep	2018	8,320	13,300	cwt	\$ 139.46	\$ 1,855,000	
	2017	8,500	13,600	cwt	\$ 90.00	\$ 1,224,000	
Poultry and	2018					\$ 568,838,000	
Misc. Other b	2017				\$ 552,252,00		
Total	2018 2017					\$ 989,912,000 \$1,007,996,000	

a Net gain

b Includes chickens, ducks, fish, gamebirds (guinea hen, pheasant, pigeon and quail); geese, goats, insects (beneficial); and turkeys



LIVESTOCK AND POULTRY PRODUCTS

		PRODUCTION		VAL	UE	
ITEM	YEAR	PRODUCTION	UNIT	PER UNIT	тот	AL
Manure ^a	2018	1,887,000	ton	9.38	\$	17,700,000
	2017	2,161,000	ton	4.27	\$	9,227,000
Milk						
Manufacturir	ng 2018	10,600	cwt	14.18	\$	150,000
	2017	15,600	cwt	18.46	\$	288,000
Market ^b	2018	26,956,000	cwt	15.42	\$	415,662,000
	2017	26,853,000	cwt	16.42	\$	440,926,000
Milk Total	2018				\$	415,812,000
	2017				\$	441,214,000
Other ^c	2018				\$	29,290,000
	2017				\$	55,408,000
Total	2018				\$	462,802,000
	2017				\$	505,849,000

- a Includes cow and poultry manure
- b Includes cow milk (conventional and organic) and goat milk
- c Includes chicken, duck, and turkey commercial and hatching eggs, and wool



APIARY PRODUCTS AND POLLINATION SERVICES



					VAL	UE
ITEM	YEAR	PRODUCTION TOTAL U	NIT	PER UNIT	тот	AL
Apiary Products						
Honey	2018	3,835,000	lb	4.02	\$	15,417,000
	2017	3,341,000	lb	2.46	\$	8,219,000
Beeswax	2018	158,000	lb	3.65	\$	577,000
	2017	405,000	lb	3.15	\$	1,276,000
Pollination ^a	2018		200	23	\$	827,000
Secu	2017	100000000000000000000000000000000000000	1000		\$	993,000
Trees, Fruit	2018			#	\$	100,775,000
and Nut c	2017		1.0	400	\$	83,668,000
Melon ^d	2018			機	\$	4,317,000
	2017		1		\$	1,168,000
Vegetable ^e	2018				\$	228,000
	2017		41	A S	\$	260,000
Total	2018		311		\$	122,141,000
	2017				\$	95,584,000

- a Reflects value of pollination by all bee colonies located in Fresno County for pollination services during 2018
- b Alfalfa, lettuce, and onion
- c Almond, apple, blackberry, blueberry, cherry, kiwifruit, pear, plum, pluot, pomegranate and prune
- d Cantaloupe, honeydew, watermelons and mixed melons
- e Bell pepper, cucumber, chili pepper, pumpkin, and squash



INDUSTRIAL CROPS

CROP	YEAR	PRODUCTION	UNIT	VA	LUE
Timber ^a	2018	284,826,000	board feet	\$	2,077,000
	2017	192,413,000	board feet	\$	3,115,000
Firewood	2018	1,130	cord	\$	5,790
	2017	1,213	cord	\$	6,100
Other ^b	2018			\$	1,814,000
	2017			\$	2,788,000
Total	2018			\$	3,896,790
	2017			\$	5,909,100

- a Includes government and non-government properties
- b Includes bark, biomass, compost, ground cover, limbs/boughs, mulch, poles, pomace and wood fines



SUSTAINABLE AGRICULTURE

2018 BIOLOGICAL CONTROL ACTIVITIES

PEST	B.C. AGENT/MECHANISM	ACTIVITY				
Glassy-winged sharpshooter,	- Gonatocerus triguttatus	CDFA released parasitoids species				
Homalodisca vitripennis	- Gonatocerus morrilli	and monitored for evidence GWSS				
	- Gonatocerus morgani	egg parasitism				

2018 DETECTION ACTIVITIES

INSECT	TRAPS DEPLOYED	RESULTS
European Grapevine Moth, Lobesia botrana	7,605	0
Glassy-winged sharpshooter, Homalodisca vitripennis	3,427	Multiple residential/commercial captures (properties treated)
Asian citrus psyllid, Diaphorina citri	3,136	1 capture
Light brown apple moth, <i>Epiphyas postvittana</i>	701	0
Mediterranean fruit fly, Ceratitis capitata	774	0
Gypsy moth, Lymantria dispar	468	0
Oriental fruit fly, Bactrocera dorsalis	706	0
Melon fruit fly, Bactrocera cucurbitae	346	0
Japanese beetle, Popillia japonica	338	0
Apple maggot, Rhagoletis pomonella	40	0
Western cherry fruit fly, Rhagoletis indifferens	17	0



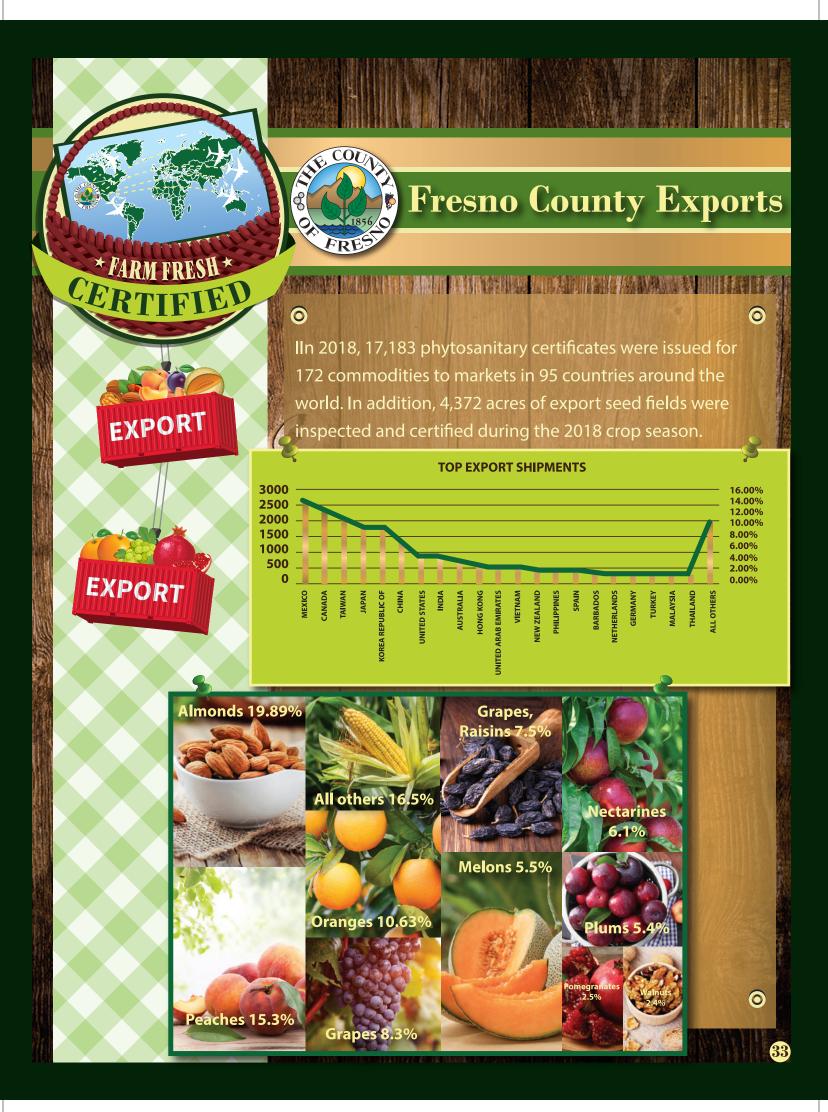
SUSTAINABLE AGRICULTURE

2018 BIOLOGICAL CONTROL ACTIVITIES

PEST	ACTIVITY	RESULT
Glassy-winged sharpshooter	6.708 - Bulk Citrus	
	Inspections	

2017 PEST ERADICATION / MANAGEMENT ACTIVITIES

	傳播·斯特·拉普·斯特斯斯特·斯特斯斯特斯特·斯特斯特斯特斯特斯特斯特斯特斯特斯特斯特斯特斯特
ERADICATION	
Rush Skeletonweed	1670 acres surveyed
	715 acres infested
	2.25 net acres treated
Pink Bollworm	69,090 cotton acres
	0 Plowdown non-compliance
MANAGEMENT	
Perennial Pepperweed	3,735 acres surveyed / 738 acres infested
	57.75 net acres treated
Glassy-winged sharpshooter	164 properties treated





Gross Production by Year

	124 111	,			Marie Control of the	200000	CONTRACTOR DESCRIPTION OF THE PARTY OF THE PARTY.		A REAL PROPERTY OF THE REAL PROPERTY OF THE	THE RESIDENCE OF THE PARTY OF T
CROPS	1998		2008		2015		2016	Ş	2017	2018
Field	\$ 466,556,000		\$ 505,093,000		\$ 235,683,000	*	\$ 230,614,000		\$ 323,047,000	\$ 342,442,000
Seed	\$ 33,202,00	*	\$ 36,066,000		\$ 23,466,000		\$ 21,491,000		\$ 27,765,000	\$ 37,219,000
Vegetable	\$ 691,940,000		\$ 1,223,840,000	*	\$ 1,251,412,000		\$ 1,105,362,000		\$ 990,326,000	\$ 1,520,149,000
Fruit & Nut	\$ 1,211,362,000	*	\$ 2,413,093,000		\$ 3,403,549,000	*	\$ 3,247,839,000		\$ 4,033,301,000	\$ 4,357,961,000
Nursery	\$ 29,575,600		\$ 34,255,000		\$ 46,637,000		\$ 116,186,000		\$ 38,247,000	\$ 51,061,000
Livestock (et. al.)	\$ 809,503,000		\$ 1,377,613,000		\$ 1,631,094,000		\$ 1,371,314,000	*	\$ 1,513,845,000	\$ 1,452,714,000
Apiary	\$ 9,008,000		\$ 33,761,000		\$ 70,745,000		\$ 90,377,900		\$ 95,584,000	\$ 122,141,000
Industrial	\$ 6,566,000	*	\$ 4,188,000		\$ 3,349,000		\$ 4,735,200		\$ 5,909,100	\$ 3,896,790
TOTAL	\$ 3,257,712,600	*	\$ 5,627,909,000	*	\$ 6,665,915,000	*	\$ 6,187,919,100	*	\$ 7,028,024,100	\$ 7,887,583,790
* Revised										

